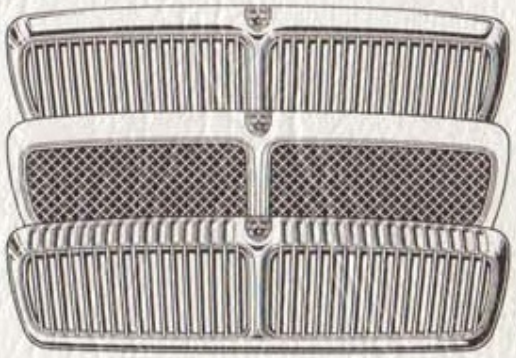
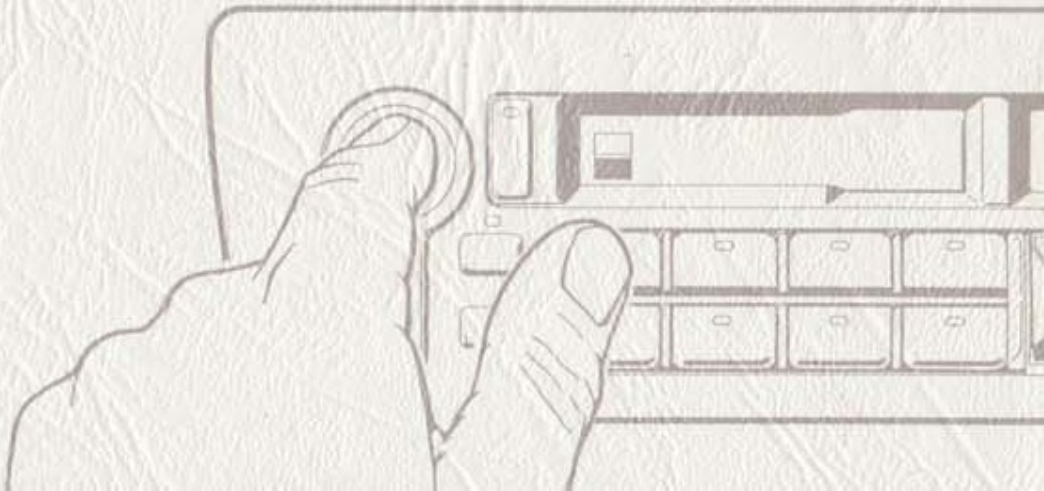


SOUND SYSTEM



BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH II
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH
THE QUEEN MOTHER
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
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BY APPOINTMENT TO
HIS ROYAL HIGHNESS THE PRINCE OF WALES
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JAGUAR CARS LIMITED COVENTRY

CONTENTS PAGE

1 – Radio Cassette 3

2 – Compact Disc (CD) Player 15

3 – System Care 23

4 – Index 24

SOUND SYSTEM

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FOREWORD

Whilst every effort is made to ensure the accuracy of the particulars contained in this Sound System Handbook, neither the Manufacturer nor the Dealer, by whom this Handbook is supplied, shall in any circumstances be held liable for any inaccuracy or the consequences thereof.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form, electronic, mechanical, photocopying, recording or other means without prior written permission from the Service Division of Jaguar Cars Limited.

The Manufacturer reserves the right to vary its specifications with or without notice, and at such times and in such manner as it thinks fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

The information contained herein applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle owners should consult their Jaguar Dealer.

SECTION 1

Radio Cassette Controls	4
Aerial Operation	5
Radio Cassette	5
Radio Operation	6
Cassette Tape Operation	12

Radio Cassette Player Controls

1. ON/OFF switch and volume control.
2. Cassette tape–in indicator and eject button.
3. Cassette tape/CD player button.
4. FM/AM band switch.
5. Radio tuning control, cassette tape forward/rewind control and compact disc (CD) player forward/reverse control (where fitted).
6. Preset buttons.
7. TA (Traffic Information/Radio data system), (United Kingdom and Europe only).
   Traffic information (Japan only).
   SCAN (All markets except for United Kingdom, Europe and Japan).
8. Auto memory (A–MEM).
9. Programme change (cassette operation) and CD Mix (where fitted).
10. Dolby B noise reduction (cassette operation).
11. Mode button.

Aerial Operation

The aerial automatically rises when the radio is switched on and the ignition switch is in position I or II. The aerial will lower when the radio is switched off.

Caution: Do not attempt to raise the aerial manually.

It is important to clean the radio aerial periodically to maintain smooth operation and good reception.

Radio Cassette Player

Security Code Number (United Kingdom and Europe)

This unit is protected by an anti-theft security code. If power to the radio drops to 5 volts or less, (dead battery), or there is a power interruption/disconnection, after a short while the radio display will indicate 'CODE'. At this point the radio will not operate until you have re-entered the correct security code.

The four-digit code for your radio is listed on the two radio security cards supplied with the vehicle. Enter the code by using the pre-set buttons 1 to 6 and a 'beep sound' occurs. If the code is not properly entered, then begin the code entry again, starting with the first digit. If the code is not properly entered after three successive attempts, the radio will not accept any entry until it has been left on for one hour (the radio display will show the word 'WAIT'). After one hour in the 'ON' position the radio will accept three further entries.

Note: Should you lose your radio security cards, contact your Jaguar Dealer, who, for security reasons will require proof of vehicle ownership.

ON/OFF and Volume Control

Press the knob to switch on the radio cassette and illuminate the display. Press the knob again to switch off.

Automatic Volume Control (AVC)

This is a feature which raises the volume of the radio to overcome road noise as the vehicle's speed increases. To switch AVC on or off, press the volume knob for more than two seconds. The current state will be displayed ie, 'AVC ON'/ 'AVC OFF'.

When AVC is ON it is possible to override the automatic mode by adjusting the volume manually. When AVC is switched off, the volume will return to normal setting after about five seconds.

Mode Button

This controls the function of bass, treble, left to right balance and front to rear fade. To cycle through these functions, press the mode button repeatedly. Once the required function has been selected turn the volume control to adjust sound quality. After about five seconds the radio will revert to normal volume control mode.

Source Tone Memory

Bass and treble positions are automatically memorised for radio, cassette tape and CD allowing individual settings for each mode.

Radio Operation

Examples of Radio Display Indication

TP Traffic Programme (United Kingdom and Europe).

TP Tape Play (All markets except United Kingdom and Europe).

ST Stereo.

FM and AM Reception

FM reception has the advantages of low noise, minimal distortion, wide dynamic range, extended frequency response, and is usually broadcast in stereo. However, as FM frequency waves are relatively short and travel in a straight line, they can sometimes be impeded by obstructions, which may interrupt good reception in some parts of the country.

Whilst FM reception will generally provide better quality sound, AM reception or Medium Waveband (MW) and Long Waveband (LW) (United Kingdom and Europe) may be better in remote areas not covered by the shorter range FM transmitters.

When experiencing poor FM reception, background noise can be reduced by adjusting the Mode button in Treble adjustment position.

Band Switch FM/AM – Band selection will be shown in the display panel. Pressing the band switch repeatedly will cycle the radio through FM, AM, Medium and Long Wavebands (where applicable). When a cassette tape or CD is being played, pressing the Band Switch selects radio operation.

Tuning Control – This control has two upward positions and two downward positions. The first position up or down will activate the radio in the seek mode, making the tuner search for the next available station.

Push and hold the control in the second position up or down to tune the radio manually, the display counts up or down to the frequency required. Incremental adjustment can be made by toggling the control between the first and second positions.

Preset Buttons

WARNING: **Programme your six presets before starting a journey. It is dangerous to conduct the preset procedure while driving.**

In each waveband, six stations can be memorised in the bank of preset buttons marked 1 to 6. After tuning to a station, hold the chosen preset button for at least two seconds. The unit will 'beep' to indicate that the station has been stored. The red light on the button then lights up. The station can be recalled from this preset memory by pressing the button momentarily, for less than two seconds.

Scan (All markets except for United Kingdom, Europe and Japan) – Press the button and release, the radio will search up the waveband for the next 'strong' station. After listening to this station for twenty seconds, the radio will continue searching and pausing as it scans the waveband. To cancel, press the button again, or press any other button.

JWX-127

Traffic Information (Japan Only) – Press this button to select 'Traffic Information', where available, using the AM frequency. There are two frequencies that can receive this information. By pressing this button repeatedly it is possible to cycle through these frequencies and your previously selected mode.

Auto Memory (A–MEM) – The automatic memory function, programmes the six strongest stations on the selected waveband into presets 1 to 6.

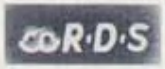
To activate this function, hold the button marked 'A–MEM' for at least two seconds. There will be a brief silence while the radio searches the waveband for the six strongest stations. The unit will then 'beep' to indicate that programming is complete. The red light on the button will then light up. It will then select preset number '1', and turn the sound back on. If no station is found, the display will show 'NO FM' or 'NO AM'.

To switch between the A–MEM preset stations and your own presets, press the button for less than two seconds.

Auto Memory (A–MEM) with Radio Data System (RDS) Selected (United Kingdom and Europe only)

When RDS is selected and the A–MEM function operated, the radio sound will go off, while the radio searches for the six strongest RDS stations. Similarly, if A–MEM is used with Traffic Announcement (TA) activated, the radio will only programme the six strongest RDS stations carrying traffic information. If six stations are not available, the display will show 'NO FM'.

Note: When used correctly, RDS and TP are very effective additional features in the radio's capabilities. However, if these facilities are used without full understanding, they may cause a situation confusing to the operator. This is less likely to occur as more RDS stations become available.



RDS (Radio Data System) and TA (Traffic Announcements) (United Kingdom and Europe only)

The Jaguar radio is equipped with an advanced Radio Data System decoder (RDS) to assist finding and staying tuned to a chosen radio station. The radio picks up inaudible signals transmitted on the FM waveband which permit automatic programme tuning, display of the station's identity and up–to–the–minute TA (Traffic Announcements).

Some elements of this broadcast information system are transmitted on the FM waveband in most European countries.

The Jaguar Radio RDS facility provides three functions:

Station name display.
Automatic re–tuning to follow network stations.
Local radio station's Traffic Announcements.

RDS Station Name Display – When RDS is selected the station name is displayed in eight characters rather than the frequency. The display also identifies network 'splits', where different programmes are being broadcast on FM, Medium Wave or Long Wave.

RDS Automatic Tuning – RDS provides fully–automatic radio tuning. It tunes to a signal not a frequency. The RDS will search out the strongest signal available for a given station and automatically switches frequency as necessary.

RDS Traffic Information – Although there is a wide range of travel information available from National and Local Radio, a driver only requires information relevant to the vehicle's current locality. RDS provides this information, automatically. As soon as the authorities learn of a traffic problem, they inform the nearest local radio station. The traffic news is then broadcast by the transmitters in the relevant area. The TA will interrupt radio, cassette tape or CD play, on all equipment with the RDS feature, provided Traffic Announcement has been selected. If the volume control is set at minimum it will automatically increase to an audible level for the duration of the traffic news–flash.

When the news–flash is over, the system switches back to the driver's original listening choice and volume setting.

RDS and TA Operation – To activate RDS, press the TA button and hold for at least two seconds, the display will indicate 'RDS ON' or 'RDS OFF' as appropriate. The radio then gathers RDS information and displays the Programme Service name in place of the frequency, provided the programme chosen is an RDS station. If it is not **the radio will remain on station, the display will show the frequency and the 'RDS' will remain on in readiness for a signal.**

When listening to a National Network Station, or a station that broadcasts on more than one frequency, the radio will automatically re–tune to the strongest available signal. This 'network following' facility will continue throughout the journey. (The unselected presets will also receive updated frequency information, if appropriate)

When 'RDS' data is lost and no 'AF' (Alternative frequency) signal is available, the radio will stay on station, the display will show the frequency only and 'RDS' will remain on in readiness for the signal to recover.

If the 'RDS' function does not respond correctly, refer to the 'RDS Trouble–Shooting Guide' on page 11.

TA – Traffic Announcement – Press the 'TA' button momentarily, (for less than two seconds), a red light will show on the button. The radio then checks that the station has RDS TP (Traffic Programme); indicated by 'TP' at the top of the display. If the current station has no TP available the display will show 'TP SEEK' while it searches for a station that does have TP. The radio will then provide 'Traffic Announcements' whenever they are transmitted. When received, the display will show 'TRAFFIC'. The announcement will interrupt radio, tape or CD play, even if the volume control is set at minimum. The volume will be increased for the announcement, reverting to normal setting afterwards.

Switching Off RDS and TA Functions

To switch off the TA function only: Press the TA button momentarily (for less than two seconds); a 'beep' will be heard and the red light will go out.

To switch off RDS and TA functions: Press the TA button and hold for at least two seconds, the red light will go out and the display will revert to frequency only.

TA – Preset Minimum Volume – When the radio is set to minimum volume and a traffic announcement occurs, the volume is raised to a preset level. This level is adjustable by pressing the 'MODE' button and holding for more than two seconds. The volume level is adjusted between 1 to 6 by turning the volume control knob.

RDS Trouble–Shooting Guide

Incorrect response from RDS	Reason and rectification
Radio does not display programme name.	Check that RDS is turned on by pressing the TA button and holding for more than two seconds. If radio does not display programme service name, it is not broadcasting RDS data, or you are in a poor reception area. Try re–tuning to another station with RDS.
Station name is lost and displays frequency only.	Radio has lost reception of the RDS data due to vehicle moving out of transmitter range, or loss of signal owing to being in a tunnel, under a garage forecourt canopy or some similar shielding. If the latter is the case, wait until the vehicle is clear of the shielding. There is a short delay before the station name returns.
Upon operating the A–MEM, most or all of the presets display 'NO FM' when pressed.	The radio cannot find six FM, RDS FM or TP stations dependent upon the mode selected. If this occurs, switch off RDS or TA function and reselect A–MEM.
Upon pressing the TA button the radio re–tunes to another station and displays 'TP SEEK'.	The station selected does not have TP/TA facility, the radio will re–tune to one that does.
Radio sound goes off and the display shows 'PI SEEK'.	The RDS radio station selected is unable to confirm that the frequency tuned to has the correct RDS data – programme identification (PI). It will then seek for a frequency that has the **correct** data.
Radio 'beeps' and the display shows 'NO TP/TA'.	The RDS TP radio station selected is unable to receive Traffic Programmes, either owing to moving out of the transmitter's range, or loss of signal owing to being in a tunnel, under a garage forecourt canopy, or similar shielding. If required, re–tune the radio to another station or turn off TA

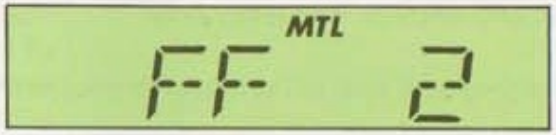
Cassette Tape Operation

At all times the display will indicate which function has been selected by using a simple word, figure or abbreviation – for example, '1' or '2', indicating side 1 or side 2, or 'FF' for Fast Forward.

Insert a cassette into the aperture and it will start to play immediately. After playing one side of the cassette, it will auto–reverse and play the other side. If a Metal or Chrome, rather than a Ferric tape is used, the equalisation will be automatically adjusted and 'MTL' will show in the display.

Examples of Cassette Tape Play Display Information

SEEK UP	Search to beginning of next track.
SEEK DN	Search to beginning of track being played.
REW	Rewind.
FF	Fast forward.
MTL	Metal or Chrome tape being used.
CLEAN TAPE	Tape mechanism requires cleaning.



Eject Button – Press to eject the cassette.

Tape–in Indicator – When a cassette is inserted into the player, the aperture door closes and an indicator light 'Tape–in' on the Eject Button comes on.

Tape Button – If you are playing radio or compact disc (where fitted), pressing this button will play any cassette that is in the player.

Dolby B – If you are using a cassette with a 'Dolby' recording, to select the noise reduction system, press the Dolby on/off button. A red light above the button will come on to confirm selection.

Dolby noise reduction system is manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double–D symbol are trade–marks of Dolby Licensing Corporation.

Programme Change Button – While playing a cassette, press this button to change to the other side of the tape.

Forward, Rewind Control – This control has two positions in each of the upward and downward directions. The first position up will activate tape search to the beginning of the next track. The first position down will activate tape search to the beginning of the current track being played.

Pushing the control to the second position up or down will activate continuous fast forward or rewind of the cassette. This can be cancelled by moving the control in either direction.

Traffic Announcement (TA) – Local Radio Stations (United Kingdom and Europe)

To select Traffic Announcement: Press the TA button, a 'beep' will be heard and a red light will show on the button. When there is a traffic announcement, the radio will interrupt the cassette tape and the display will show 'TRAFFIC'.

Scan (All markets except for United Kingdom, Europe and Japan) – Press the button and release, the unit will search to the beginning of the next track. After listening to the track for 20 seconds, the unit will continuously search and play the first 20 seconds of each track.

To Cancel: Press the button again.

Cassette Tape Operation (continued)

Band Switch (FM/AM) – Pressing this button selects radio operation.

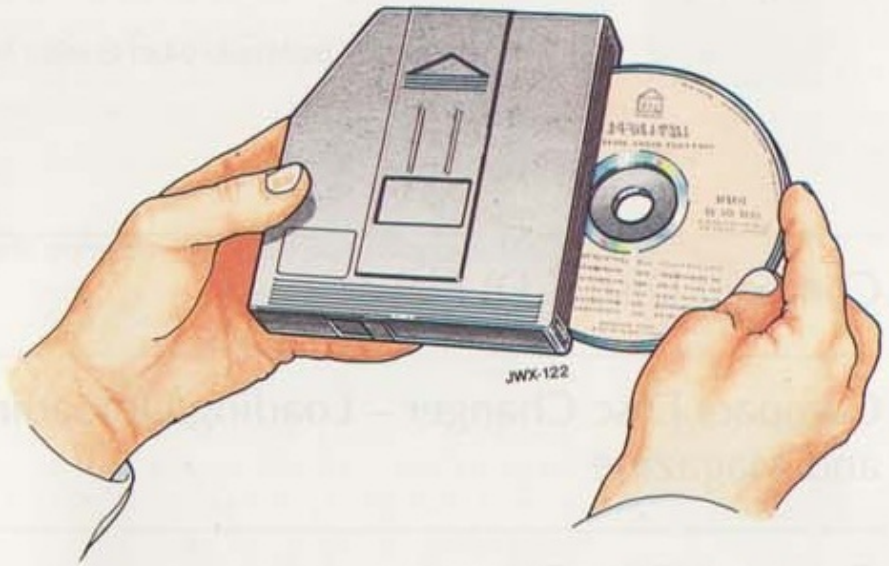
TAPE/CD Button – Pressing this button selects compact disc (CD) play (where fitted).

SECTION 2

Compact Disc (CD) Player	16
Compact Disc Changer – Loading/Unloading Disc and Magazine	16
Compact Disc Operation	18
Compact Disc Player Fault Codes	20

Compact Disc (CD) Player (Where fitted)

The radio cassette is used to control the function of a CD Player. The CD unit comprises a player and changer which contains a magazine of six compact discs. This equipment is mounted in the luggage compartment. The CD player and changer are available as an accessory from your Jaguar Dealer.



CD Changer – Loading and Unloading Discs and Magazine

The CD changer is mounted in the luggage compartment.

Inserting Compact Discs

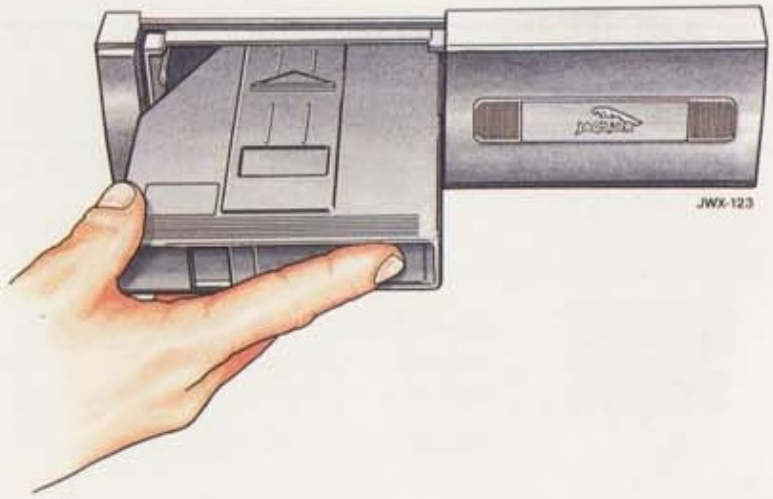
Insert your six selected discs into the magazine with the labels facing up.

Disc slots are numbered 1 (bottom slot) to 6 (top slot). The appropriate white tab rises when the disc is inserted into the magazine.

Inserting the magazine

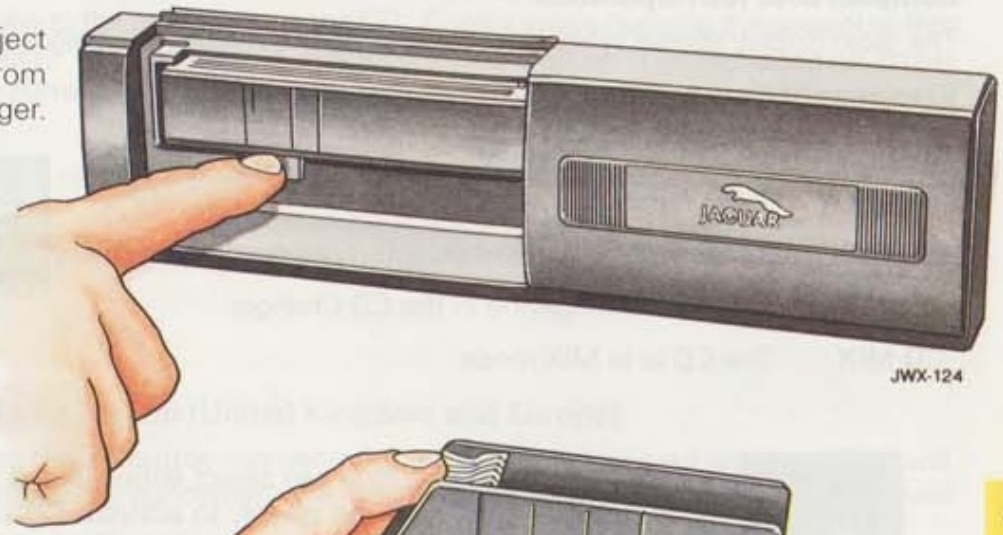
To open the CD magazine door, slide to the right. Insert the loaded magazine into the changer as shown in the illustration with the arrow mark facing up and pointing toward the CD changer. Ensure that it clicks into position.

Always make sure that the sliding door remains closed to keep dust out of the mechanism.



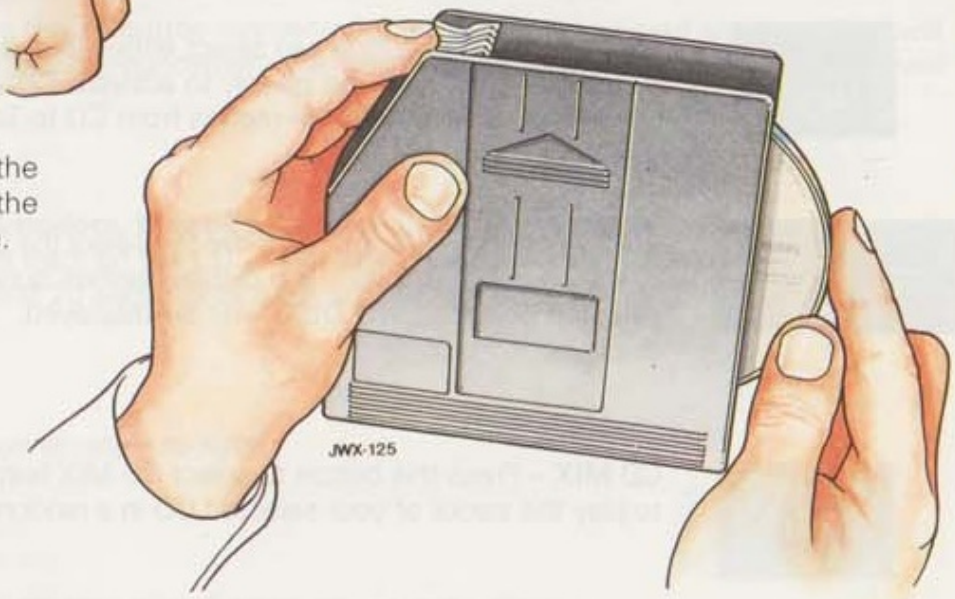
Magazine Eject

Slide the CD magazine door to the right and press the eject button. Allow time for the discs to return to the magazine from the player. The magazine then partially ejects from the changer.



Removing Compact Discs

Press the white tab on the top of the magazine to release the disc. Hold the edge of the CD and gently pull it out of the magazine, taking great care not to touch the playing surface.



Compact Disc (CD) Operation

The radio display shows which function has been selected by using a simple statement, for example, DISC 1 or TRACK 2.

Examples of Compact Disc Display Information

DISC	Disc number selected.
TRACK	Track number selected.
NO DISC	There is no disc in the selected position.
NO MAG	There is no magazine in the CD Changer.
CD MIX	The CD is in MIX mode.

CD button – This button can select either Tape or CD from radio mode. Tape always takes priority if there is a cassette already in the player; to activate CD play, press the button twice. Pressing the Tape/CD button subsequently, will cycle the modes from CD to Tape.

CD Selection – Buttons 1 to 6 directly select the CD in those positions in the Changer magazine. This selection is shown in the display. The display flashes during loading, and stops during play. If there is no disc in the selected position, 'NO DISC' will be displayed. If there is no magazine in the Changer, 'NO MAG' will be displayed.

CD MIX – Press this button to select CD MIX feature. The display will show 'CD MIX' and the player will start to play the tracks of your selected CD in a random order. To cancel, press CD MIX again or any other button.

Forward, Reverse Control – This control has two positions in each of the upward and downward directions. The first position up will activate track skip to the next track on the CD. Continuously nudging the control to this position will select further track numbers. The selection is indicated in the display. The first position down activates return to the beginning of the current track. Continuously nudging the control to this position selects previous tracks.

Pushing the control to the second position up or down selects continuous fast forward or fast reverse playing of the CD.

The sound level reduces during these cueing and reviewing modes. Cue and review can be cancelled by nudging the control back towards the rest position.

Traffic Announcement (TA) – Local Radio Station (United Kingdom and Europe)

To select traffic announcement: Press the TA button momentarily; a 'beep' will be heard and a red light will show on the button. When there is a traffic announcement the radio will interrupt the CD and the display will show 'TRAFFIC'.

Scan (All markets except for United Kingdom, Europe and Japan) – Press the button and release, the unit will search for the beginning of the next track on the CD. After listening to the track for 20 seconds, the unit will continuously search and play the first 20 seconds of each succeeding track of one CD. Cancel scan by pressing the button again.

Band Switch FM/AM – Press this button to return to radio.

Tape Button – Pressing this button selects tape play, if a cassette is in the player.

Compact Disc Player Fault Diagnosis

If the CD Player does not operate properly, an error message will be displayed. The following table gives a fault diagnosis for each error message displayed.

MESSAGE	CAUSE	SOLUTION
E-01	Disc–change malfunction.	See your Jaguar Dealer.
E-02	Disc is in player mechanism.	Press the magazine eject button, insert an empty magazine into the player. Eject the disc from the player by pressing the eject button. If the magazine fails to eject from the player, see your Jaguar Dealer.
E-03 E-04 E-05	Disc–change malfunction.	If the error message goes out within a few seconds, the unit is working correctly. If the error message stays on, see your Jaguar Dealer.
E-06	Disc–change malfunction.	Press the magazine eject button and pull out the magazine. Check that the error message goes out, then operate the function again. If the magazine cannot be pulled out, see your Jaguar Dealer.

Compact Disc Player Fault Diagnosis (continued)

MESSAGE	CAUSE	SOLUTION
E-07	Magazine ejection impossible.	Press the magazine eject button. If the magazine does not eject, see your Jaguar Dealer.
E-30	High temperature.	The error message will go out when the temperature returns to within the operating range.
NOT CONT	Bad connection or disconnected CD changer.	Check connection between CD changer and control unit. See your Jaguar Dealer.
NO MAG	No CD magazine in the CD changer.	Insert the CD magazine.
NO DISC	No CD in pocket of CD magazine.	Insert a CD into the pocket of the CD magazine.

Taking Care of Your Vehicle's Sound System

Radio

Do not use petrol, solvents or abrasive cleaners on the radio. Wipe the surface of the radio with a lint–free cloth to remove dust. Slightly moisten the cloth with clean water to remove any finger–marks from the outside surfaces of the radio.

Cassettes

Always use good quality cassettes. Low cost tapes can cause jamming, the sound quality will be inferior, and they can create a fast build–up of deposits on the play–back head.

Before playing, check the cassettes to ensure that the tape is not loose on the spools If necessary, take up the slack by gently turning the spools with the end of a pencil. A jammed or sticking tape will cause the auto–reverse mechanism to operate continuously.

It is best not to use a tape longer than 45 minutes playing time each side (C90). Cassettes should be stored in their library cases away from direct sunlight. Do not store cassettes in door pockets where they could be effected by the magnets in loud–speakers which might impair the sound quality.

Never insert a cassette that has a torn or lose label, it may cause the mechanism to jam.

After approximately 15 hours playing time, the display on the radio will show 'CLEAN TAPE'. You should then clean the tape mechanism itself using a mechanical type cleaner with a wetting agent in an approved kit available from your Jaguar Dealer. Do not use abrasive type cleaners as they can cause excessive wear on the play–back head.

Compact Discs (CDs)

When handling compact discs, do not touch the playing surface. When they are not being used they should always be stored in their cases away from direct sunlight, heat and dust. Scratches, fingermarks or dust on the surface of a disc can cause the optical pick–up to skip tracks. If the surface is dirty, use an appropriate CD cleaner.

Do not attempt to play damaged, warped, cracked or oversized discs. They could seriously damage the play–back mechanism.

Aerial

The aerial care procedure should be carried out when cleaning the exterior of the vehicle, to ensure smooth and reliable operation of the aerial.

When cleaning the aerial, always wipe it in an upward direction. Occasionally use an aerial maintenance wipe cloth to lubricate the aerial.

In freezing conditions check that no ice has formed over the top of the aerial, this could prevent it from being raised, causing damage to the lift motor.

A special aerial cleaner is available from your Jaguar Dealer.

INDEX

Aerial care 23
Aerial operation 5
Automatic volume control (AVC) 5
Auto memory (A–MEM) – Radio 7

Band switch (FM/AM) – Radio 6
Band switch (FM/AM) – Cassette player 14
Band switch (FM/AM) – Compact disc player 19

Care of the vehicle's Sound System 23
Cassette operation 12
Cassette tapes – Care of 23
CD button – Compact disc player 18
Compact disc (CD) changer – Loading and Unloading discs and magazine 16
Compact disc (CD) operation 18
Compact disc (CD) player 16
Compact disc player fault codes 20
Compact disc selection control 18
Compact discs – Care of 23

Dolby B control – Cassette player 13

Eject button – Cassette player 12

Fader control – Radio cassette 5
FM and AM reception 6
Foreword 2
Forward/Reverse control – Compact disc player 19
Forward/Rewind control – Cassette player 13

Main controls – Radio cassette 4
Mode control 5

On/Off and volume control 5

Programme change control – Cassette player 13
Preset buttons – Radio 7

Radio cassette 5
Radio cassette – Care of 23
Radio data system (RDS) control 8
Radio data system (RDS) trouble–shooting guide 10
Radio operation 6

Security code number 5
Scan control – Cassette player 13
Scan control – Compact disc player 19
Scan control – Radio 7

Tape button – Cassette player 12
Tape–in indicator – Cassette player 12
Traffic announcement (TA) control 8
Traffic programme – Local station – Radio 9
Traffic programme – Local station – Cassette player 13
Traffic programme – Local station – Compact disc player 19
Tuning control – Radio 6

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